

AMENDMENTS TO THE CLAIMS

1-32. (Canceled)

33. (New) An analyzer device for analyzing at least one gas contained in a liquid flowing in a drilling pipe or delivery pipe in an installation for extracting fluid from a subsoil, the analyzer device comprising:

analyzer means for analyzing the at least one gas; and

sampling means for sampling at least a fraction of the at least one gas and comprising at least one porous membrane member, said porous member comprising a support and possessing a first face in contact with the liquid flowing in the drilling pipe or delivery pipe and a second face that faces into a pipe connected to said analyzer means;

wherein said first face has a Vickers hardness greater than 1400 kgf/mm².

34. (New) The analyzer device of claim 33, wherein said porous membrane member includes a coating covering said support over said first face.

35. (New) The analyzer device of claim 34, wherein said coating is based on silicon carbide.

36. (New) The analyzer device of claim 33, wherein said first face is water and oil repellent.

37. (New) The analyzer device of claim 36, wherein the wetting angle of water on said first face is greater than 120°.

38. (New) The analyzer device of claim 36, wherein said first face includes fluorine-containing polymers incorporated by grafting.

39. (New) The analyzer device of claim 33, wherein said first face of said porous membrane member that is in contact with the liquid is substantially plane.

40. (New) The analyzer device of claim 33, and further comprising a regulator means for regulating pressure in said pipe connected to said analyzer means.

41. (New) The analyzer device of claim 33, wherein said sampling means comprises a plurality of porous membrane members that have second faces facing in succession said pipe connected to said analyzer means.

42. (New) The analyzer device of claim 33, wherein said first face is in contact with a drilling liquid in the drilling pipe.

43. (New) The analyzer device of claim 33, wherein said first face has a Vickers hardness lying in a range of 1400 kgf/mm² to 1900 kgf/mm².

44. (New) An installation for extracting fluids from the subsoil, said installation comprising a drilling pipe connecting at least one point of the subsoil to the surface, a delivery pipe connected to said drilling pipe at the surface and at least one analyzer device according to claim 33, wherein said sampling means is mounted on a tubular element constituted by said drilling pipe or said delivery pipe.

45. (New) The installation of claim 44, wherein said first face in contact with the liquid is disposed substantially parallel to the long axis of said tubular element.

46. (New) The installation according to claim 45, wherein said first face is set back in a wall of said tubular element.

47. (New) The installation according to claim 46, wherein said tubular element includes a branch connection and said sampling means is located in said branch connection.

48. (New) The installation according to claim 44, wherein said first face in contact with the liquid is disposed in a wall of said tubular element.

49. (New) The installation according to claim 44, wherein said sampling means is located in said drilling pipe upstream of said delivery pipe.

50. (New) The installation according to claim 44, further comprising a filter downstream of said delivery pipe, wherein said at least one analyzer device comprises two analyzer devices, said sampling means of said two analyzer devices being located upstream and downstream of said filter, respectively.

51. (New) An analyzer device for analyzing at least one gas contained in a liquid flowing in a drilling pipe or delivery pipe in an installation for extracting fluid from a subsoil, the analyzer device comprising:

an analyzer for analyzing the at least one gas; and
a sampling apparatus for sampling at least a fraction of the at least one gas and comprising at least one porous membrane member, said porous member comprising a support and possessing a first face in contact with the liquid flowing in the drilling pipe or delivery pipe and a second face that faces into a pipe connected to said analyzer;

wherein said first face has a Vickers hardness greater than 1400 kgf/mm².

52. (New) The analyzer device of claim 51, wherein said first face has a Vickers hardness lying in a range of 1400 kgf/mm² to 1900 kgf/mm².